

Project: Dry-Type Substation Transformer

Location: Libby Dam, Libby MT

UNRESTRICTED - OPEN TO SMALL AND LARGE BUSINESS

Closing Date: 01 July 2004 Closing Time: 5:00 PM PST

REMARKS: Fax quote to (206) 764-6817, Attention: Scott Britt, or email to scott.w.britt@usace.army.mil.

REQUEST FOR QUOTATIONS		THIS RFQ [] IS [X] IS NOT A SMALL BUSINESS SET-A:		ET-ASIDE		PAGE	OF	PAGES	
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1. REQUES	T NO.	2. DATE ISSUED	3. REQUISITION/PURCH REQUEST NO.	ASE	UI	ERT. FOR NAT. DEF. NDER BDSA REG. 2	RATING		
W912DW-0		24-Jun-2004	W68MD9-4159-5405		Al	ND/OR DMS REG. 1			
ATTN: CENW	ER DISTRICT, SEAT /S-CT ARGINAL WAY SOU				6. DI	ELIVER BY (Date) SEE SCHI	EDULE		
					7. DELI		OTHER		
5b. FOR INI		ALL: (Name and Tele	ephone no.) (No collect calls) 206-764-35	517		DESTINATION	(See Sched	lule)	
8. TO: NAME AND ADDRESS, INCLUDING ZIP CODE					MAINTEN 17155 HIC	TINATION (Consignee and a NANCE SECTION(LI) SHWAY #37 59923-9703 FAX:	ddress, includ	ling Zi	IP Code)
10. PLEASE FURNISH QUOTATIONS TO THE ISSUING OFFICE IN BLOCK 5a (Date) 01-Jul-2004				CK 5a ON OR BEFO	RE CLOSE	OF BUSINESS:			
IMPORTAN it to the addres contract for su	NT: This is a request in Block 5a. This pplies or services.	request does not commi	uotations furnished are not offers. I t the Government to pay any costs i origin unless otherwise indicated b	ncurred in the preparation	on of the subm	nission of this quotation or to			
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12. DISCOUNT FOR PROMPT PAYMENT a. 10 CALENDAR DAYS %			b. 20 CALENDAI	R DAYS %	c. 30 CALENDAR DAYS	d. CAL	END	AR DAYS	
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13. NAME AND ADDRESS OF QUOTER (Street, City, County, State, and ZIP Code)			SIGN QUOTA		emonada 10			TION	
				16. NAME AND T	TITLE OF S	IGNER (Type or print)			ONE NO. rea code)

Section B - Supplies or Services and Prices

ITEM NO 0001	FFP SUBSTATION SQ1 - Prov 60Hz. 1000kVA, 13800-48	QUANTITY UNIT 1 Lump Su /C TRANSFORMERS FOR vide (2) dry-type substation to 0 Volts in accordance with the drawings. FOB Destination I	ransformers, three phase, e incorporated statement of	AMOUNT
	Unit Price \$	X2 = TOTAL \$		
	PURCHASE REQUEST N	IUMBER: W68MD9-4159-540:	5	
			NET AMT	
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FOB:	Destination			
ITEM NO 0002	FFP	QUANTITY UNIT 1 Lump Su /C TRANSFORMERS FOR	ım	AMOUNT
	1000kVA, 13800-480 Volt	 dry-type substation transforms in accordance with the incorners. FOB Destination Deliver 	porated Statement of Work,	
	Unit Price \$	X2 = TOTAL \$		
	Deliver all items to the fo MAINTENANCE SECTION 17155 HIGHWAY #37 LIBBY MT 59923-9703	_		
	PURCHASE REQUEST N	IUMBER: W68MD9-4159-5403	5	
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FOB: Destination

Section C - Descriptions and Specifications

STATEMENT OF WORK

LIBBY POWERHOUSE SUBSTATION TRANSFORMER

1.1 DESCRIPTION OF WORK

This contract covers the supply and delivery of four indoor dry-type, self-cooled (Class AA), 3-phase substation transformers, rated 13,800V delta – 480V delta, 60Hz, and 1000kVA at Libby Powerhouse.

1.2 ATTACHMENTS

SPECIFICATIONS:

16270 SUBSTATION TRANSFORMER, DRY-TYPE

DRAWINGS

Reference drawings required by the Contractor, but not included in these plans and specifications, to determine the size of the existing enclosures, location for the new transformers and other information as necessary, will be provided by the Government.

Portland District

P.O. Box 2946

POINTS OF CONTACT:

CONTRACT ADMINISTRATION TECHNICAL POINT OF CONTACT US Army Corps of Engineers US Army Corps of Engineers

Seattle District

ATTN: CENWS-CT-PR ATTN: CENWP-HDC-P

P.O. Box 3755

Seattle, WA 98124-3755 Portland, OR 97208-2946 Scott Britt (206) 764-3517 Jeremy Harvison (503) 808-4283

1.3 CONTRACTOR'S SUBMITTALS

All approved submittals will form a part of the contract. All submittals shall be addressed to the following offices:

Two copies to:

U. S. Army Corps of Engineers Hydroelectric Design Center ATTN: CENWP-HDC-P P. O. Box 2946 Portland, OR 97208-2946

One copy to:

U.S. Army Corps of Engineers Libby Dam Project Office ATTN: Jeffrey Regh 17115 Highway #37 Libby, MT. 59923-9703

- 1.3.1 Shop drawings shall be prepared using Microstation V8.0 Computer-Aided Design System software, and shall be submitted in Microstation V8.0 format.
- 1.3.2 All drawing and data submitted and approved will form a part of the contract. The sequence of submission of drawings shall be such that all information is available for checking each drawing when it is received. The drawing shall include parts lists and material schedules listing all items called out on the drawings.

1.3.3 Three copies of each drawing and data shall be submitted to the addresses shown above. Each submission of drawings and data must be accompanied by transmittal Form 4025 (copy attached at end of this section) containing a list of drawings giving titles and numbers. All correspondence, drawings, literature, instruction books, data, and nameplates shall be in the English language, with English units as currently used in the United States.

The following action codes are for submittals requiring Government approval (GA).

- a. <u>Action Code A (Approved as Submitted)</u>. Submittals which can be approved without correction will be stamped "Approved", one copy of catalog and other printed data, will be returned to the Contractor.
- b. <u>Action Code B (Approved, Except as Noted, Resubmission Not Required)</u>. Submittals which have only minor discrepancies will be corrected and stamped "Approved as Corrected" or "Except as Noted." Corrections will be identified. Distribution will be same as for "Approved" submittals.
- c. <u>Action Code C (Approved, Except as Noted, Resubmission Required)</u>. One copy of submittals which are incomplete or require more than minor corrections will be marked in red to indicate necessary corrections. The marked copy will be returned to the Contractor stamped "Returned for Correction."
- d. <u>Action Code E (Disapproved)</u>. One copy of submittals which are fundamentally in error, cover wrong equipment or construction, or require extensive corrections will be returned to the Contractor stamped "Disapproved." An explanation will be furnished on the copy indicating reason for disapproval.
- e. <u>Resubmittal</u>. Resubmittal will not be required for submittals with Action Code A or B unless subsequent changes are made by the Contractor or by a contract modification. For submittals with Action Code C or E, corrections required shall be made, any changes shall be noted by dating the revisions to correspond with the change request date, and the submittals shall be promptly resubmitted for review. Government costs incurred after the first resubmittal will be charged to the Contractor.

Upon receipt of submittals which have Action Codes C, or E the Contractor shall within 30 calendar days after receipt, submit corrected copies of each submittal to the address stated above. If revisions are made after a submittal has been assigned an A or B code, the Contractor shall furnish corrected copies subsequent to each revision.

1.4 SUBMITTAL DESCRIPTIONS

The submittals described below are those required and are further described in the technical sections of the specifications. Submittals required by the CONTRACT CLAUSES and other nontechnical parts of the contract are not included in this list.

SD-01 Data

Submittals which provide calculations, descriptions, or documentation regarding the work.

SD-04 Drawings

Submittals which graphically show relationship of various components of the work, schematic diagrams of systems, details of fabrication, layouts of particular elements, connections, and other relational aspects of the work. All drawings shall be submitted in both paper and electronic formats.

SD-06 Instructions

Preprinted material describing installation of a product, system or material, including special notices and material safety data sheets, if any, concerning impedance's, hazards, and safety precautions. Operation and maintenance manuals are considered deliverables under the contract and not submittals; however, when necessary to review information to be included in the final manuals such information to be included in the final manuals should be called for under this submittal description.

SD-07 Schedules

Tabular lists showing location, features, or other pertinent information regarding products, materials, equipment, or components to be used in the work.

SD-08 Statements

A document, required of the Contractor, or through the Contractor, from a supplier, installer, manufacturer, or other lower tier Contractor, the purpose of which is to confirm the quality or orderly progression of a portion of the work by documenting procedures, acceptability of methods or personnel, qualifications, or other verifications of quality.

SD-09 Reports

Reports of inspections or tests, including analysis and interpretation of test results. Each report shall be properly identified. Test methods used shall be identified and test results shall be recorded.

SD-13 Certificates

Statement signed by an official authorized to certify on behalf of the manufacturer of a product, system or material, attesting that the product, system or material meets specified requirements. The statement must be dated after the

award of this contract, must state the Contractor's name and address, must name the project and location, and must list the specific requirements which are being certified.

SD-14 Samples

Samples, including both fabricated and unfabricated physical examples of materials, products, and units of work as complete units or as portions of units of work.

SD-18 Records

Documentation to record compliance with technical or administrative requirements.

# 	TRANSMITTAL OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL SAMPLES, OR MANUFACTURER'S CERTIFICATES OF COMPLIANCE (Read instructions on the reverse side prior to initiating this form)	OF SHOP DRAWINGS, EQUIPMENT DATA, MATERIAL S. MANUFACTURER'S CERTIFICATES OF COMPLIANCE (Read instructions on the reverse side prior to initiating this form)		DATE			TRANSMITTAL NO.	O NO	
	SECTION I - REQUEST	SECTION I - REQUEST FOR APPROVAL OF THE FOLLOWING ITEMS (This section will be initiated by the contractor)	OWING ITEMS (This	s section s	will be initiated	t by the contr	actor)		
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					NAR	1E AND SIGN.	NAME AND SIGNATURE OF CONTRACTOR	ITRACTOR	
		SECTION II - APPROVAL ACTION	ROVAL ACTION						
ENCLOSI	ENCLOSURES RETURNED <i>(List by Item No.)</i>	NAME, TITLE A	NAME, TITLE AND SIGNATURE OF APPROVING AUTHORITY	PROVING	AUTHORITY		DATE		
BNG FOF	ENG FORM 4025-R, MAR 95		EDITION OF SEP 93 IS OBSOLETE.	ις	SHEET OF			(Proponent: CEMP-CE)	:MP-CE)

INSTRUCTIONS

- 1. Section I will be initiated by the Contractor in the required number of copies.
- number for identifying each submittal. For new submittals or resubmittals mark the appropriate box; on resubmittals, insert transmittal number of last submission as Each transmittal shall be numbered consecutively in the space provided for "Transmittal No.". This number, in addition to the contract number, will form a serial well as the new submittal number.
- The "Item No." will be the same "Item No." as indicated on ENG FORM 4288-R for each entry on this form. က်
- Submittals requiring expeditious handling will be submitted on a separate form.
- Separate transmittal form will be used for submittals under separate sections of the specifications.
- A check shall be placed in the "Variation" column when a submittal is not in accordance with the plans and specifications-also, a written statement to that effect shall be included in the space provided for "Remarks". ဖ
- Form is self-transmittal, letter of transmittal is not required.
- When a sample of material or Manufacturer's Certificate of Compliance is transmitted, indicate "Sample" or "Certificate" in column c. Section I. တ်
- U.S. Army Corps of Engineers approving authority will assign action codes as indicated below in space provided in Section I, column i to each item submitted. In addition they will ensure enclosures are indicated and attached to the form prior to return to the contractor. The Contractor will assign action codes as indicated below in Section I, column g, to each item submitted. တ်

JBMITTED	Disapproved (See attached).	Receipt acknowledged.	Receipt acknowledged, does not comply as noted with contract requirements.	Other (Specify)
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THE FOLLOWING ACTION CODES ARE GIVEN TO ITEMS SUBMITTED	Approved as submitted.	Approved, except as noted on drawings.	Approved, except as noted on drawings. Refer to attached sheet resubmission required.	Will be returned by separate correspondence.
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10. Approval of items does not relieve the contractor from complying with all the requirements of the contract plans and specifications.

(Reverse of ENG Form 4025-R)

SECTION 16270 SUBSTATION TRANSFORMER, DRY-TYPE

TABLE OF CONTENTS

PART 1 GENERAL

1.1	GENERAL
1.2	REFERENCES
1.3	SUBMITTALS
1.4	WORKMANSHIP

PART 2 PRODUCTS

2.1	MATERIALS
2.2	TRANSFORMERS
2.3	NAMEPLATE
2.4	ENCLOSURES

PART 3 EXECUTION

3.1 FACTORY TESTING3.2 FIELD TESTING

SECTION 16270

SUBSTATION TRANSFORMER, DRY-TYPE

PART 1 – GENERAL

1.1 GENERAL

This section covers the supply of four dry-type substation transformers, rated 13,800V delta – 480V delta and 1000kVA, which are compatible with the existing switchgear bus work, and compatible, if possible, with the existing enclosures and arrestors, such that no modifications shall be necessary to install the supplied transformers in the existing enclosures on the substations at Libby Dam. The Contractor is responsible for the manufacture, factory testing, delivery, and field testing of the transformers.

1.2 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE)

IEEE C57.12.01 (1998) General Requirements for Dry-Type

Distribution and Power Transformers Including those with Solid Cast and/or Resin-Encapsulated Windows

NEMA C57.12.51 1981(R1998) Requirements for Ventilated Dry-Type Power Transformers, 501 kVA and

Larger, Three-Phase, with High-Voltage 601 to 34,500 Volts, Low-Voltage 208Y/120 to 4160

Volts

IEEE C57.12.55 1987(R1998) Requirements for Transformers-Dry-Type

Transformers used in Unit Installations, Including

Unit Substations, Conformance Standard

IEEE C57.12.91 (2001) Test Code for Dry-Type Distribution and Power

Transformers

1.3 SUBMITTALS

Government approval is required for submittals with a "GA" designation; submittals having an "FIO" designation are for information only

SD-01 Data

Manufacturer's Catalog; GA

Data composed of catalog cuts, brochures, circulars, specifications, product data, and printed information in sufficient detail and scope to verify compliance with the requirements of the contract documents. Catalog data shall be submitted not later than 45 calendar days after date of receipt of written notice of award.

SD-04 Drawings

Electrical Equipment; GA

Detail drawings shall show physical arrangement, construction details, connections, wiring diagrams, materials used in fabrication, access requirements for installation and maintenance, physical size, electrical characteristics, mounting and support details, and equipment weight. Drawings shall be drawn to scale and/or dimensioned. Optional items shall be clearly identified as included or excluded. Drawings shall be submitted not later than 45 calendar days after date of receipt of written notice of award.

SD-06 Instructions

Factory Test Procedure; GA

A detailed description of the Contractor's proposed procedures, test equipment, test methods, test values, and pass/fail levels for factory testing. The factory test procedure shall be submitted not later than 30 calendar days prior to the start of factory tests.

Field Test Procedure; GA

A detailed description of the Contractor's proposed procedures, test equipment, test methods, test values, and pass/fail levels for field testing. The field test procedure shall be submitted not later than 30 calendar days prior to the start of field tests.

O & M Manuals; GA

Complete operating, maintenance, and storage data regarding the transformers and their related equipment shall be submitted as part of the O&M Manual. The manual shall include the manufacturer's name, model number, catalog cuts, parts list, service manual, drawings, and a brief description of all equipment and their basic operating features. The manual shall list routine maintenance procedures, possible breakdowns and repairs, and a trouble-shooting guide including detailed instructions for removal, overhaul, reconditioning and reinstallation of replaceable components. In addition, the manual shall also contain recommended frequency of inspections and cleaning.

SD-09 Reports

Factory Test Reports; GA

Six copies of the information described below in standard ring binders on 8 1/2 by 11 inch paper from which material may readily be removed and replaced, including a separate section for each test. Rigid plastic dividers with tabs shall separate sections. (See Para. 3.1)

- a. A list of equipment used, with calibration certifications.
- b. A copy of measurements taken.
- c. The dates of testing.
- d. The equipment and values to be verified.
- e. The conditions specified for the test.
- f. The test results, signed and dated.
- g. Final measurements.

This report shall be submitted not later than 30 calendar days after the completion of the tests.

Field Test Reports; GA

Six copies of the same information described above in the same format as the factory test reports. (See Para. 3.2) This report shall be submitted not later than 30 calendar days after the completion of the tests.

1.4 WORKMANSHIP

Perform work in a skillful and craftsman-like manner according to the industry accepted shop practice for the manufacture of this type of transformer.

PART 2 - PRODUCTS

2.1 MATERIALS

Materials, supplies, and parts that make up the transformers specified shall be tested in accordance with the referenced standards specified herein, except as otherwise indicated or where such tests are waived in writing by the Contracting Officer. If the Contractor desires to use an off-the-shelf transformer not manufactured specifically for this application, evidence shall be submitted confirming that the units meet the requirements of these specifications. Any materials required in the work, but not covered by the specifications, shall be approved for the purpose intended prior to their incorporation.

2.2 TRANSFORMERS

2.2.1 Type and Rating

The transformers, core and coils only, shall be indoor dry-type, self-cooled (Class AA), and shall be rated 1000kVA, 3-phase, 60Hz, 13800-480 volts, with delta-delta connected windings. The transformers shall conform to the applicable requirements of IEEE C57.12.01, NEMA C57.12.51, and IEEE C57.12.55. Transformer impedance shall be 8 percent subject to ANSI standard tolerances. The transformers' high voltage winding shall have a basic lightning impulse insulation level (BIL) of at least 95kV. The transformers' insulation system shall be Class 220°C. The transformers shall be designed to carry rated load continuously without exceeding 150°C temperature rise above 40°C ambient temperature when installed in the existing ventilated sheet metal enclosures at Libby Dam and cooled by natural air circulation without the use of fans. If this is not possible, the transformers shall be provided with enclosures in which they can achieve this temperature rise without the use of fans. The audible sound level of the enclosed transformers when operating at rated load will not exceed 64dBA.

2.2.2 Core and Coils

a. The core and coils of the transformers shall be rigidly attached to a structural steel base. Removable lifting eyes shall be provided on the core and coil assembly. The core laminations shall be constructed of high quality, non-aging, cold-rolled steel especially suitable for the purpose. The use of paper insulation in the core will not be acceptable. The core laminations shall be free from burrs which may puncture the insulation between laminations and shall be securely fastened to prevent shifting during shipment, excessive vibration in normal service, and displacement under short-circuit conditions. Core joints shall be interleaved.

b. All conductors inside the transformers shall be made of copper including the coils and bus. Four 2-1/2 percent full-capacity taps, 2 above rated voltage and 2 below rated voltage, shall be provided in the high-voltage windings, and suitable means shall be provided for changing the taps while the transformer is de-energized. The terminal boards of the installed enclosed transformers shall be readily accessible. All transformer leads and taps shall be securely braced to prevent displacement or injury during transit or installation and under short-circuit conditions. Two of the transformers shall be configured for installation on the right-hand side of the existing double-ended substations, and the other two transformers shall be configured for installation on the left hand side.

2.3 NAMEPLATE

Nameplates shall be provided for the transformers. The nameplates shall be stainless steel, similar in size and thickness to the nameplates on the existing transformer enclosures. The nameplates shall be stamped, or engraved with the information specified in section 5.12 of IEEE C57.12.01.

2.4 ENCLOSURES

If the transformers cannot be installed in the existing enclosures at Libby Dam, which are shown in the reference drawings, then new enclosures will be required. These new enclosures will be ventilated sheet metal enclosures for 480-volt Switchgear, except that formed enclosures of not less than No. 13 MSG may be used. The enclosures shall be designed such that no modifications to the existing substations are necessary to install the new enclosed transformers, including the high-voltage cables in their embedded conduits and the low-voltage bus. The new enclosures shall not exceed the long-side dimension of the existing enclosures. The new enclosures may vary in the height and short-side dimensions, but must not extend past the existing center section. Reference drawing C972-1 'Base Detail and Mechanical SQ1 & SQ2' shows the dimensions of the existing equipment. The new enclosures shall have provisions for the reuse of the existing lightning arrestors, which are Cooper Power Systems Varistar Cat# AZES002GO12015. Doors or removable panels shall be provided in the new enclosures to permit access to the transformers, and suitable removable lifting eyes or other approved means shall be provided to permit lifting the enclosure alone and also the complete enclosed transformer by the use of a crane. The enclosures shall be adequately braced and stiffened on the inside, and shall be coated with flame-resistant sound-deadening material, if necessary, so that the audible sound level of the enclosed transformers when operating at rated load will not exceed 64dBA. The enclosures shall also be painted to match the existing substations. A paint sample will be provided upon request.

PART 3 - EXECUTION

3.1 FACTORY TESTING

All of the transformers shall be completely assembled and subjected to the routine tests listed in Table 15 of IEEE C57.12.01. The first transformer manufactured shall also be subjected to the additional tests specified below. The Contracting Officer shall witness all tests required herein, unless waived in writing, and no equipment shall be shipped until the Contracting Officer has approved it for shipment. The Contractor shall notify the Contracting Officer 14 days in advance of the date of the tests, so that arrangements can be made for the Contracting Officer to be present at the tests. The factory tests, including test equipment, test methods, measurements, and computations, shall be in accordance with the applicable requirements of IEEE C57.12.01 and IEEE C57.12.91, and shall be subject to the approval of the Contracting Officer.

a. Temperature rise test. This test shall be made according to IEEE C57.12.91 Section 11. This test is required to demonstrate that the new transformers can meet their rated temperature rise when installed in the existing enclosures at Libby Dam. Therefore, this test shall be made with the transformer inside a replica of the existing enclosures. The replica shall be made of steel, and it shall be grounded and painted in the same manner as the existing enclosures.

- b. Audible sound level test. This test will be performed according to IEEE C57.12.91 Section 13. This test is required to demonstrate that the new transformers will not exceed the maximum allowable audible sound level of 64dBA when installed in the existing enclosures at Libby Dam. Therefore, this test shall be made with the transformer inside a replica of the existing enclosure.
- c. Impulse test. This test will be performed according to IEEE C57.12.91 Section 10.5. This test is required to demonstrate that the new transformers can meet their rated BIL when installed in the existing enclosures at Libby Dam. Therefore, this test shall be made with the transformer inside a replica of the existing enclosure.

3.2 FIELD TESTING

The following tests shall be performed on the transformers after they have been delivered to the site but before they are installed into the existing enclosures.

- a) Winding resistance of both windings on the rated voltage tap
- b) Ratio tests on all tap connections
- c) Applied potential
- d) Core ground

The Contractor shall recommend applicable voltage test levels for the potential tests according to the requirements of IEEE C57.12.91. The Contracting Officer shall witness all tests required herein, unless waived in writing. Each transformer must pass these tests before the Government will accept ownership of the new equipment. The Contractor shall notify the Contracting Officer 14 days in advance of the date of the tests, so that arrangements can be made for the Contracting Officer to be present at the tests. The field tests, including test equipment, test methods, measurements, and computations, shall be in accordance with the applicable requirements of IEEE C57.12.01 and IEEE C57.12.91, and shall be subject to the approval of the Contracting Officer.

List of Drawings (these documents are after the provisions/clauses section)

Vicinity Map & Project Location Map		
Reference Drawing Number	Description	Туре
218P301H01B &	Substation Transformer	Westinghouse Shop Drawing
4420A98	Nameplates	
7783D20	Sub 2 Outline Drawing	Westinghouse Shop Drawing
7750D33	Sub 3 Outline Drawing	Westinghouse Shop Drawing
4330D74	Instruction Drawing for Items	Westinghouse Shop Drawing
	Shipped Detail	
C972-1	Base Detail and Mechanical SQ1	Central Electric Mfg. Co. Shop
	& SQ2	Drawing

Section I - Contract Clauses

CLAUSES INCORPORATED BY FULL TEXT

52.213-4 TERMS AND CONDITIONS--SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (MAY 2004)

- (a) The Contractor shall comply with the following Federal Acquisition Regulation (FAR) clauses that are incorporated by reference:
- (1) The clauses listed below implement provisions of law or Executive order:
- (i) 52.222-3, Convict Labor (June 2003) (E.O. 11755).
- (ii) 52.222-21, Prohibition of Segregated Facilities (Feb 1999) (E.O. 11246).
- (iii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).
- (iv) 52.225-13, Restrictions on Certain Foreign Purchases (Dec 2003) (E.o.s, proclamations, and statutes administered by the Office of Foreign Assets Control of the Department of the Treasury).
- (v) 52.233-3, Protest After Award (Aug 1996) (31 U.S.C. 3553).
- (2) Listed below are additional clauses that apply:
- (i) 52.232-1, Payments (Apr 1984).
- (ii) 52.232-8, Discounts for Prompt Payment (Feb 2002).
- (iii) 52.232-11, Extras (Apr 1984).
- (iv) 52.232-25, Prompt Payment (Oct 2003).
- (v) 52.233-1, Disputes (Jul 2002).
- (vi) 52.244-6, Subcontracts for Commercial Items (May 2004).
- (vii) 52.253-1, Computer Generated Forms (Jan 1991).
- (b) The Contractor shall comply with the following FAR clauses, incorporated by reference, unless the circumstances do not apply:
- (1) The clauses listed below implement provisions of law or Executive order:
- (i) 52.222-19, Child Labor--Cooperation with Authorities and Remedies (Jan 2004) (E.O. 13126). (Applies to contracts for supplies exceeding the micro-purchase threshold.)
- (ii) 52.222-20, Walsh-Healey Public Contracts Act (DEC 1996) (41 U.S.C. 35-45) (Applies to supply contracts over \$10,000 in the United States, Puerto Rico, or the U.S. Virgin Islands).
- (iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts of \$25,000 or more).

- (iv) 52.222-36, Affirmative Action for Workers with Disabilities (JUN 1998) (29 U.S.C. 793) (Applies to contracts over \$10,000, unless the work is to be performed outside the United States by employees recruited outside the United States.) (For purposes of this clause, United States includes the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.).
- (v) 52.222-37, Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (DEC 2001) (38 U.S.C. 4212) (Applies to contracts over \$25,000).
- (vi) 52.222-41, Service Contract Act, As Amended (May 1989) (41 U.S.C. 351, et seq.) (Applies to service contracts over \$2,500 that are subject to the Service Contract Act and will be performed in the United States, District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, Johnston Island, Wake Island, or the outer continental shelf lands.).
- (vii) 52.223-5, Pollution Prevention and Right-to-Know Information (Aug 2003) (E.O. 13148) (Applies to services performed on Federal facilities).
- (viii) 52.225-1, Buy American Act--Supplies (June 2003) (41 U.S.C. 10a-10d) (Applies to contracts for supplies, and to contracts for services involving the furnishing of supplies, for use in the United States or its outlying areas, if the value of the supply contract or supply portion of a service contract exceeds the micro-purchase threshold and the **acquisition**--
- (A) Is set aside for small business concerns; or
- (B) Cannot be set aside for small business concerns (see 19.502-2), and does not exceed \$25,000.)
- (ix) 52.232-33, Payment by Electronic Funds Transfer-Central Contractor Registration (May 1999). (Applies when the payment will be made by electronic funds transfer (EFT) and the payment office uses the Central Contractor Registration (CCR) database as its source of EFT information.)
- (x) 52.232-34, Payment by Electronic Funds Transfer--Other than Central Contractor Registration (Oct 2003). (Applies when the payment will be made by EFT and the payment office does not use the CCR database as its source of EFT information.)
- (xi) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241). (Applies to supplies transported by ocean vessels (except for the types of subcontracts listed at 47.504(d).)
- (2) Listed below are additional clauses that may apply:
- (i) 52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (JULY 1995) (Applies to contracts over \$25,000).
- (ii) 52.211-17, Delivery of Excess Quantities (SEPT 1989) (Applies to fixed-price supplies).
- (iii) 52.247-29, F.o.b. Origin (JUN 1988) (Applies to supplies if delivery is f.o.b. origin).
- (iv) 52.247-34, F.o.b. Destination (NOV 1991) (Applies to supplies if delivery is f.o.b. destination).
- (c) FAR 52.252-2, Clauses Incorporated by Reference (FEB 1998). This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

http://www.farsite.hill.af.mil http://www.dtic.mil/dfars

- (d) Inspection/Acceptance. The Contractor shall tender for acceptance only those items that conform to the requirements of this contract. The Government reserves the right to inspect or test any supplies or services that have been tendered for acceptance. The Government may require repair or replacement of nonconforming supplies or reperformance of nonconforming services at no increase in contract price. The Government must exercise its postacceptance rights—
- (1) Within a reasonable period of time after the defect was discovered or should have been discovered; and
- (2) Before any substantial change occurs in the condition of the item, unless the change is due to the defect in the item.
- (e) Excusable delays. The Contractor shall be liable for default unless nonperformance is caused by an occurrence beyond the reasonable control of the Contractor and without its fault or negligence, such as acts of God or the public enemy, acts of the Government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, unusually severe weather, and delays of common carriers. The Contractor shall notify the Contracting Officer in writing as soon as it is reasonably possible after the commencement of any excusable delay, setting forth the full particulars in connection therewith, shall remedy such occurrence with all reasonable dispatch, and shall promptly give written notice to the Contracting Officer of the cessation of such occurrence.
- (f) Termination for the Government's convenience. The Government reserves the right to terminate this contract, or any part hereof, for its sole convenience. In the event of such termination, the Contractor shall immediately stop all work hereunder and shall immediately cause any and all of its suppliers and subcontractors to cease work. Subject to the terms of this contract, the Contractor shall be paid a percentage of the contract price reflecting the percentage of the work performed prior to the notice of termination, plus reasonable charges that the Contractor can demonstrate to the satisfaction of the Government, using its standard record keeping system, have resulted from the termination. The Contractor shall not be required to comply with the cost accounting standards or contract cost principles for this purpose. This paragraph does not give the Government any right to audit the Contractor's records. The Contractor shall not be paid for any work performed or costs incurred that reasonably could have been avoided.
- (g) Termination for cause. The Government may terminate this contract, or any part hereof, for cause in the event of any default by the Contractor, or if the Contractor fails to comply with any contract terms and conditions, or fails to provide the Government, upon request, with adequate assurances of future performance. In the event of termination for cause, the Government shall not be liable to the Contractor for any amount for supplies or services not accepted, and the Contractor shall be liable to the Government for any and all rights and remedies provided by law. If it is determined that the Government improperly terminated this contract for default, such termination shall be deemed a termination for convenience.
- (h) Warranty. The Contractor warrants and implies that the items delivered hereunder are merchantable and fit for use for the particular purpose described in this contract.

(End of clause)

CLAUSES INCORPORATED BY REFERENCE

Section K - Representations, Certifications and Other Statements of Offerors

CLAUSES INCORPORATED BY FULL TEXT

52.219-1 S	MALL	BUSINESS	PROGRA	AM REPRESEN	TATIONS	(MAY 2004)
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- (a)(1) The North American Industry Classification System (NAICS) code for this acquisition is 335311.
- (2) The small business size standard is 750 employees.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.
- (b) Representations. (1) The offeror represents as part of its offer that it () is, () is not a small business concern.
- (2) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, for general statistical purposes, that it () is, () is not a small disadvantaged business concern as defined in 13 CFR 124.1002.
- (3) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a women-owned small business concern.
- (4) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents as part of its offer that it () is, () is not a veteran-owned small business concern.
- (5) (Complete only if the offeror represented itself as a veteran-owned small business concern in paragraph (b)(4) of this provision.) The offeror represents as part of its offer that it () is, () is not a service-disabled veteran-owned small business concern.
- (6) (Complete only if the offeror represented itself as a small business concern in paragraph (b)(1) of this provision.) The offeror represents, as part of its offer, that--
- (i) It () is, () is not a HUBZone small business concern listed, on the date of this representation, on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration, and no material change in ownership and control, principal office, or HUBZone employee percentage has occurred since it was certified by the Small Business Administration in accordance with 13 CFR part 126; and
- (ii) It () is, () is not a joint venture that complies with the requirements of 13 CFR part 126, and the representation in paragraph (b)(6)(i) of this provision is accurate for the HUBZone small business concern or concerns that are participating in the joint venture. (The offeror shall enter the name or names of the HUBZone small business concern or concerns that are participating in the joint venture:_______.) Each HUBZone small business concern participating in the joint venture shall submit a separate signed copy of the HUBZone representation.
- (c) Definitions. As used in this provision--

Service-disabled veteran-owned small business concern--

(1) Means a small business concern--

- (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
- (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.
- (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).
- "Small business concern," means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR Part 121 and the size standard in paragraph (a) of this provision.

Veteran-owned small business concern means a small business concern-

- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
- (2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern," means a small business concern --

- (1) That is at least 51 percent owned by one or more women; in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and
- (2) Whose management and daily business operations are controlled by one or more women.
- (d) Notice.
- (1) If this solicitation is for supplies and has been set aside, in whole or in part, for small business concerns, then the clause in this solicitation providing notice of the set-aside contains restrictions on the source of the end items to be furnished.
- (2) Under 15 U.S.C. 645(d), any person who misrepresents a firm's status as a small, HUBZone small, small disadvantaged, or women-owned small business concern in order to obtain a contract to be awarded under the preference programs established pursuant to section 8(a), 8(d), 9, or 15 of the Small Business Act or any other provision of Federal law that specifically references section 8(d) for a definition of program eligibility, shall-
- (i) Be punished by imposition of fine, imprisonment, or both;
- (ii) Be subject to administrative remedies, including suspension and debarment; and
- (iii) Be ineligible for participation in programs conducted under the authority of the Act.

(End of provision)

Section L - Instructions, Conditions and Notices to Bidders

QUOTE SUBMISSION INSTRUCTIONS

1. INQUIRIES: All questions concerning this project must be directed to the Contract Administrator:

Scott Britt – Contract Administrator ATTN: Scott Britt Email: scott.w.britt@usace.army.mil CENWS-CT-PR Phone: 206 764-3517 PO BOX 3755

Fax: 206 764-6817 Seattle WA 98124-3755

- 2. Responses may be emailed, faxed or mailed to the Contract Administrator until the date and time set for closing.
- 3. Marking of Quotes:

Quotes shall be plainly marked as follows:

QUOTE FOR: Dry-Type Substation Transformer

Libby Dam, Libby MT

Request for Quote No. W912DW-04-Q-0117

CLOSING DATE AND TIME: 1 July 2004, 5:00 PM Local Time

AMENDMENTS NUMBERED HAVE BEEN RECEIVED

4. **PROSPECTIVE OFFERORS**: The Director of Defense Procurement has issued a final rule amending the Defense Federal Acquisition Regulations Supplement (DFARS) to require contractors to be registered in the DOD Central Contractor Registration (CCR) for awards resulting from solicitations issued after May 31, 1998.

This rule more efficiently implements the Debt Collection Improvement Act of 1996, as it requires contractors to be registered in CCR for consideration of future solicitations, awards, and payment. Registration is required prior to award of any contract, basic agreement, basic ordering agreement, or blanket purchase agreement from a solicitation issued after May 31, 1998.

LACK OF REGISTRATION IN THE CCR DATABASE WILL MAKE AN OFFER INELIGIBLE FOR AWARD.

The web site may be accessed at www.ccr.gov. You may call 1-888-227-2423 to obtain a Registration Packet or to register On Line at www.acq.osd.mil/ec.

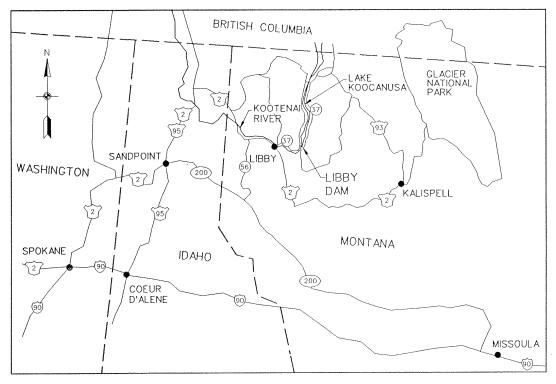
- 5. Unless stated otherwise, award will be made to the responsive responsible offer with the lowest total price.
- 6. ELECTRONIC FUNDS TRANSFER (EFT): Effective 99 Jun 01, the Government will make all payments by EFT (unless the Government VISA credit card is accepted). The only exceptions are: 1) Foreign Vendors; 2) Government Agencies, and 3) One time payments. The EFT forms and instructions are on the USACE Finance Center (UFC) Web Page; www.fc.usace.army.mil The UFC points of contact for this action are Ms. Nita Clower, 901/874-8542 and Mr. Michael Rye, 901/874-8543.
- 7. Please provide the following information:

Federal Taxpayer's ID Number:	
CCR CAGE Code:	
DUNS Number:	
Email:	

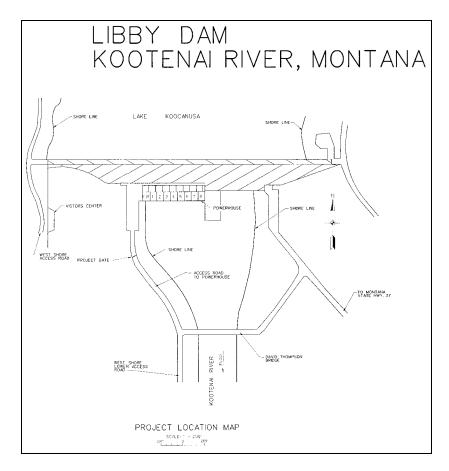
Remit to Address:

Page 20 of 20

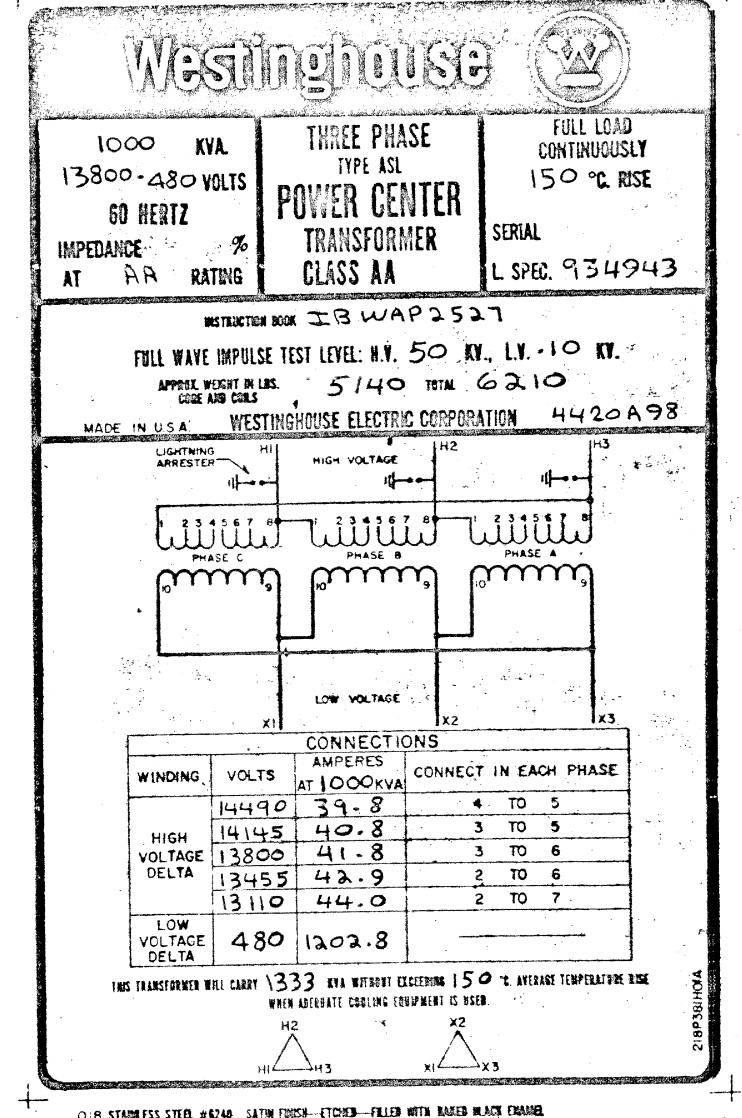
Company Name:	_
Address:	-
City/State/Zip:	



VICINITY MAP



GOVT CONTRACT NO DACW67-73CO115	
Wesiniphiques (W)	
THREE PHASE FULL LEAD 13800-480 VOLTS FOR CENTER 150 C. RISE IMPEDANCE TRANSCORMED SERIAL	
AT AA RATING L. SPEC. 934943 CLASS AA CLASS AA	
FULL WAVE IMPULSE TEST LEVEL: HIGH VOLTAGE 50 KV., LOW VOLTAGE 10 KV. APPROX WIGHT IN LESS CORE & COILS MADE IN U.S.A. WESTINGHOUSE ELECTRIC CORPORATION 218 P 301 HOLB	·
LIGHTNING HIGHI VOLTAGE	
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XI X2 X3	
CONNECTIONS WINDING VOLTS 1000 KK VA AMPERRES CONNECT IN EACH PHASE	
VOLTAGE 480 120128 DELTA THE TRANSFORMER WILL CARRY 1333 KVA INVITABIL EXCEEDING 150 C. AVERAGE TEMPERATURE RISE WHEN ADDREATE CONSLINE EPHERMENT IS ARREST.	
HI AI3 XI XX3	
REDUCE TO 5 = X 8 PROP-DOCTION 25:1 AREA 40 SQ ML \$ 8 WA P 2 4 12 ASSEMBL SEC SHARON \$ 4 HOLES FORK 190-32 X 8 = SCREW \$ 2 1/40 1/4 1/2 BETWEEN CENTERS TOF HOLES ON LONG EDGE OF PLATE 12 1/40 1/4 1/3 = BETWEEN CENTERS TOF HOLES ON SHORT EDGE OF PLATE BETWEEN TO WEST INGHOUSE ELECTRIC COMPROBATION, SHARON WORKS, SHARON, PA., W. S. A.	
Dwg No 218 P 301H013 REMOVED NO LEAD TO B S. P. COMPANION M. RISTVEY 378774	APPROVED
	OF ENGINEERS, U. S. ARMY DRTH PACIFIC DIVISION 1975 AUG 2 2 HYDRO-ELECTRIC DESIGN BRANCH



O IS STABLESS STEEL #6240 SATIN FINESH FICHED FILED WITH MAKEN MACK CHAMBE

MEDICE TO 5 = 1 1 PROPORTION 2 5 I AMEA 40 50 M

S. O.W.A.P.A.S. I NO UNITE 1 ENGINEER 11 C.D.S.C. SLLL I DATE 6-10 74 DWG NO 4420 A 91 SUB 1

METURN TO MESTROCOMUSE RECTOR COMPOSATION, SWARM WOOLS, SHARON, PA, N. S. A.

GOVT CONTRACT NO. DACW67-73CO115

APPROVED

CORPS OF ENGINEERS, U. S. ARMY,
NORTH PACIFIC DIVISION

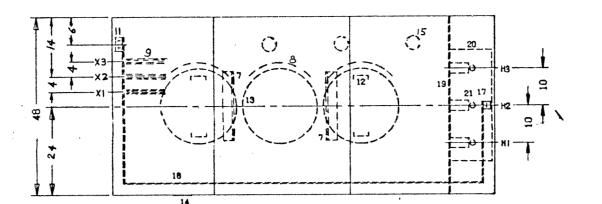
DATE 1975 AUG 2 2

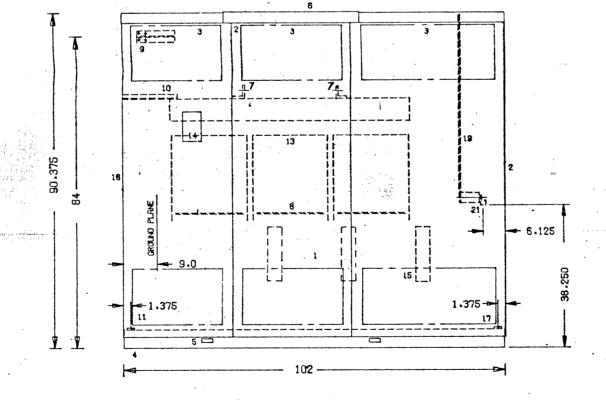
BY M HYDRO-ELECTRIC DESIGN BRANCH

Libby 480 V Substations

DACW67-73-C-0115

TO NPS 22 Aug 75





OWG. 7783020 SUB 12

-NOTES-

SEE INSTRUCTION BOOK FOR INSTALLATION AND MAINTENANCE.
THIS OUTLINE MAY BE USED FOR ERECTION PURPOSES. IT IS NOT TO BE RECARDED AS INDICATING

THE EXACT DETAILS OF CONSTRUCTION.

TRANSFORMER VIBRATION DAMPENER SHIMS, TEMPORARY LEAD BRACES, TIE PLATES AND OTHER SHIPPING SUPPORTS WHICH ARE TO BE REMOVED BEFORE OPERATING THE TRANSFORMER ARE PAINTED YELLOH AND TAGGED FOR REMOVAL

DETAIL FIGURES ARE SHOWN ON DRAWING 4330-0-74

	APPROXIMATE NET WEIGHTS	
CORE AND	COILS	5140 LBS.
CASE AND	FITTINGS	1070 LBS.
TOTAL	then high many there cannot make such river found from more update from higher things their higher their states the first of the cannot be the	6210 LBS.

ITEM

FITTINGS AND DESCRIPTIONS

- 1 CASE
- 2 REMOVABLE PANELS
- 3 YENTILATION CRILLE

 4 5 INCH BAR BASE SEE FIGURE 21 AND DETAIL

 5 1 X 3 INCH CUTOUT IN BASE FOR JACKING TRANSFORMER WITH COVER PLATES
- 6 REMOVABLE COVER FOR ACCESS TO LIFTING LUGS

- 7 LIFTING LUGS 2 TOTAL

 8 H.V. TAPS AND CONNECTORS

 4 9 L.V. FLEXIBLE CONNECTORS 3 PER PHASE 9 TOTAL SEE FIGURE 3

 10 TIE PLATE 1 TOTAL REMOVE AFTER INSTALLATION

 A11 GROUND PAD SEE FIGURE 7

- 12 VIBRATION DAMPENERS REMOVE SHIPPING SHIMS AND BOLTS AFTER INSTALLATION SEE FIGURE 8

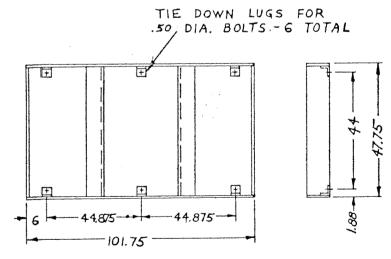
 13 CORE AND COILS MOUNTED ON ITEM 12

- 14 DIAGRAM INSTRUCTION PLATE
 15 LIGHTNING ARRESTERS -LOW RATIO- S#3498594H07 15 KV
- ▲16 L.V. END DRILLING SEE FIGURE 9

 ▲17 GROUND PRD SEE FIGURE 26

 18 CONTINUOUS GROUND BUS

- 19 H.V. TERMINAL COMPARTMENT BARRIER
 20 12 X 30 INCH OPEN AREA IN BASE FOR H.V. ENTRANCE
 21 H.V. TERMINALS -3 TOTAL- CABLE RANGE *6-350 MCM



APPROVED CORPS OF ENGINEERS, U. S. ARMY NORTH PACIFIC DIVISION BASE DETAIL FOR BOLTING DOWN UNIT

GOVT CONTRACT NO. DACW 67-73-C-0115

- △ SEE DRAWING 4330-D-74 FOR FIGURE NUMBER DETAIL
- * SEND PRINTS TO CUSTOMER

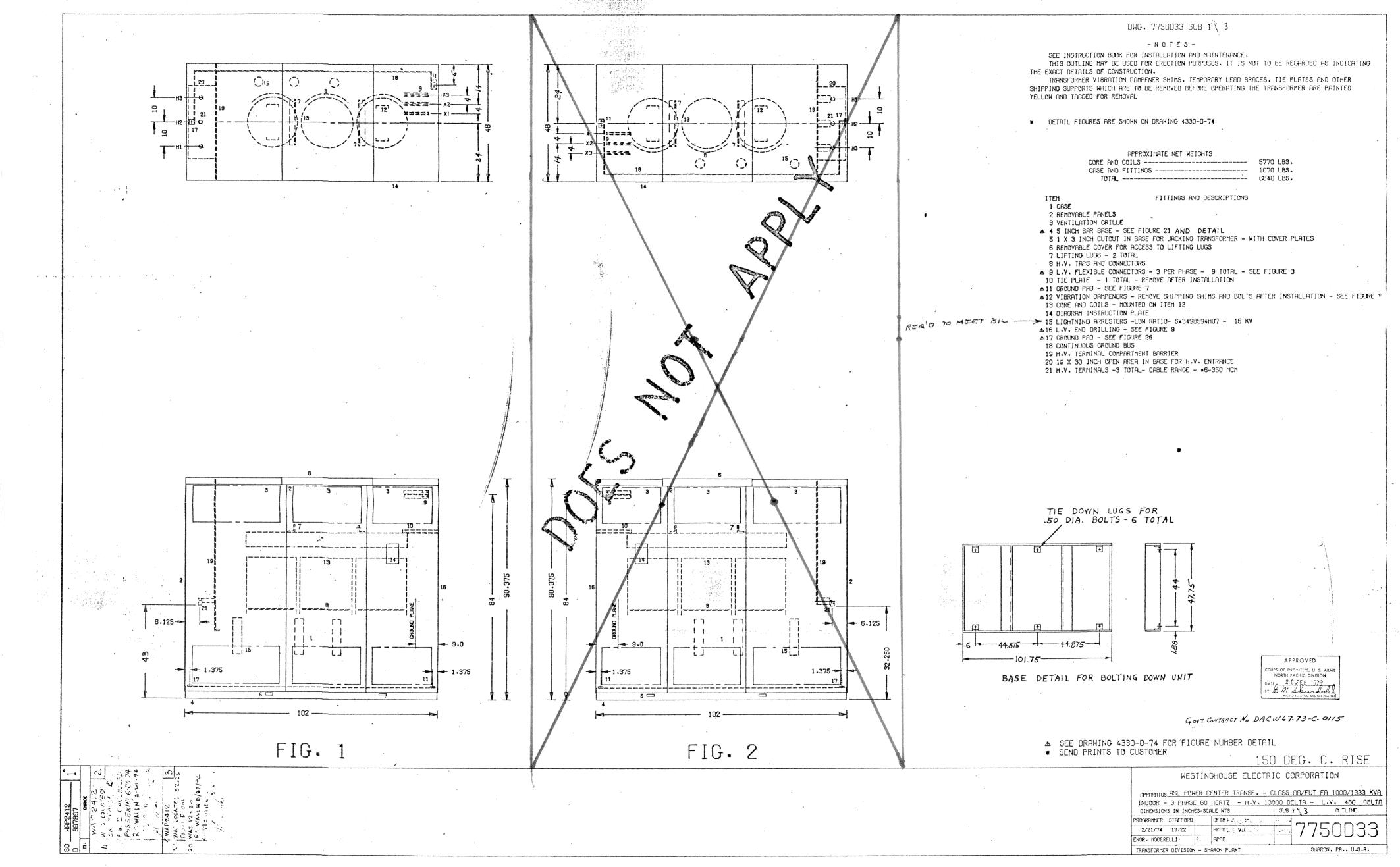
150 DEG. C. RISE

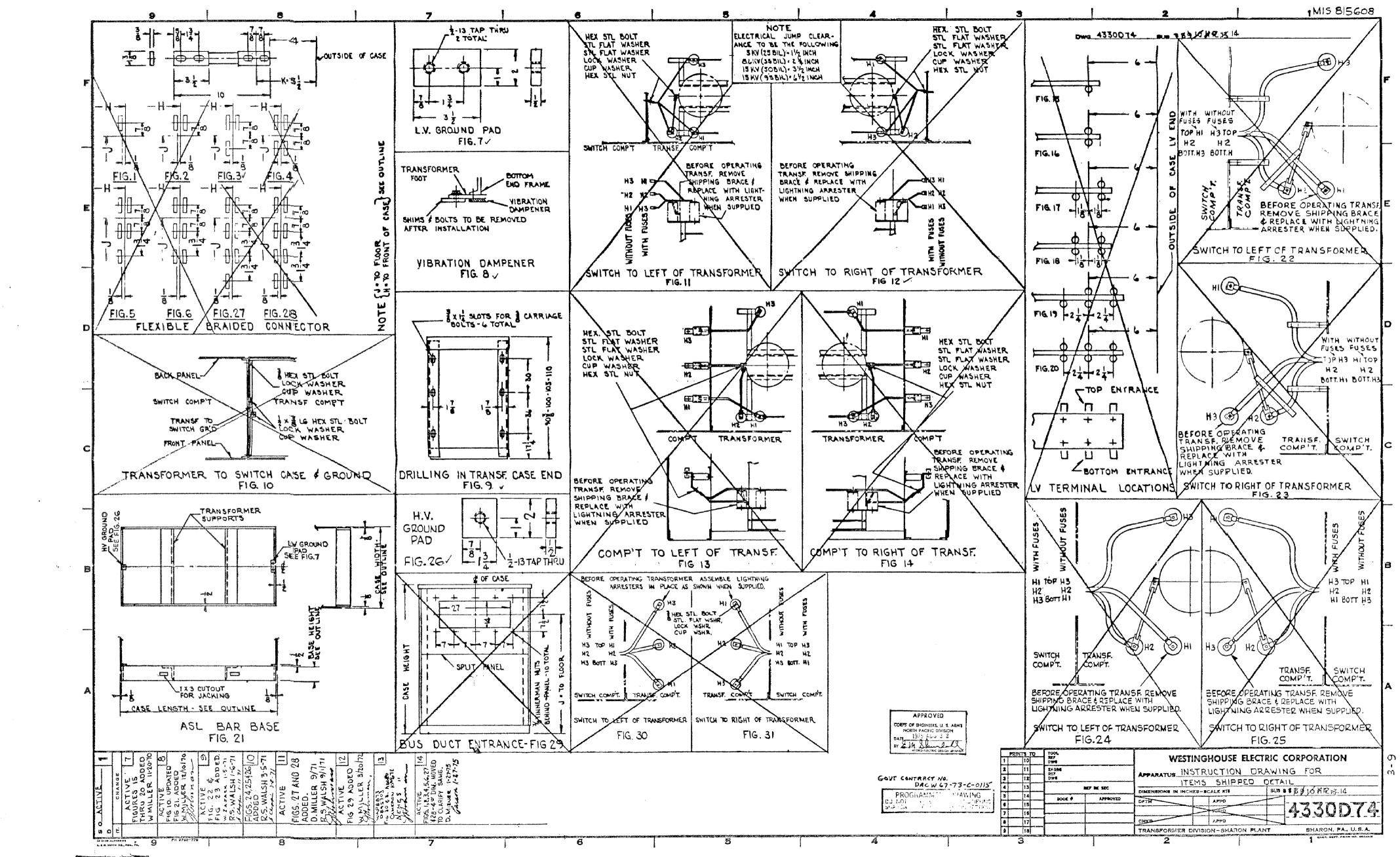
WESTINGHOUSE	ELECTRIC	CORPORATION
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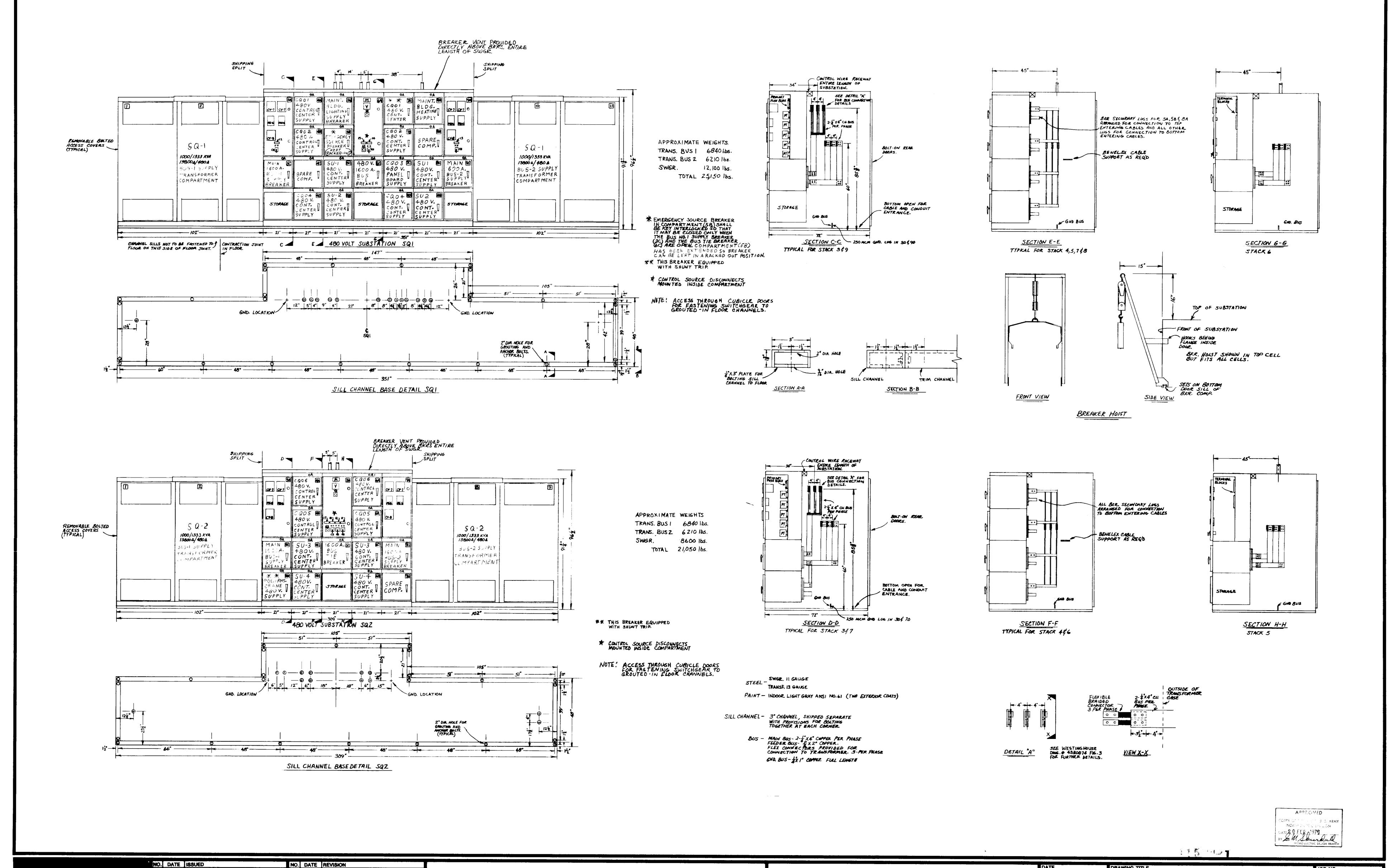
	APPARATUS ASL POHER CENTER TRA	NSF	CLASS F	AA/FUT	FA 100	00/133	S KVA
-	INDOOR - 3 PHASE 60 HERTZ -	H.V. 1	3800 DE	LTA -	L.V.	480	DELTA
-	DIMENSIONS IN INCHES-SCALE NTS		SUB 1			TLINE	

PROGRAMMER STAFFORD OFTM: 7783D20 APPO LI 6/06/74 08:27 ENOR - MODERELLI / . HPPO .

SHARON. PA., U.S.A. TRANSFORMER DIVISION - SHARON PLANT







1 4-15-74-2 8-1-74 BREAKER HOSSI, RELOCATED DISCOMMENTS, ADDED

3 11-26-74 ADDED BAR HOIST DETAILS.
4 4-16-75 CHANGED TRANSF. WEIGHTS.

4A 9-1-88 UPGRADED TO AS BUILT

O mine annual ser

CENTRAL ELECTRIC MFG. CO. SEATTLE DISTRICT, CORPS OF ENGINEERS 12-6-73 BASE DETAIL AND MECHANICAL SQI & SQZ DACW 67-73-C-0115 SCALE DRAWING NO. FULTON MISSOURI ALASKAN WAY SOUTH £=1-0" LIBBY DAM UNIT SUBSTATIONS C972-1 SEATTLE, WASHINGTON 98134 65251 DRAWN BY LIBBY DAM PROJECT DH LIBBY, MONTANA